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| FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (REV. 7-98) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) | ATTY. DOCKET NO. 000276 | SERIAL NO. 09/986,222 |
| | APPLICANT Kan et al. | |
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U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | Ref No | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPRO- PRIATE |
|---------------------|-----------|-----------------|------|------|-------|--------------|---|
| | A1 | | | | | | RECEIVED APR 23 2003 Technology Center 2600 |
| | A2 | | | | | | |
| | A3 | | | | | | |
| | A4 | | | | | | |
| | A5 | | | | | | |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | Ref No | DOCUMENT NUMBER | DATE | COUNTRY | NAME | CLASS | SUB CLASS |
|---------------------|-----------|-----------------|------|---------|------|-------|--------------|
| | B1 | | | | | | |
| | B2 | | | | | | |
| | B3 | | | | | | |
| | B4 | | | | | | |
| | B5 | | | | | | |
| | B6 | | | | | | |
| | B7 | | | | | | |

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Page, Etc.)

| | | |
|---|----|---|
| er | C1 | Blostein, S., et al. (1995) A change-detection approach to monitoring fading channel bandwidth. Information Theory pg. 155. |
| | C2 | Li, H., et al. (1990) An adaptive filtering technique for pilot aided transmission systems. IEEE pgs. 507-512. |
| | C3 | Oh, H., et al. (2000) An adaptive channel estimation scheme for DS-CDMA systems. VTC pgs. 2839-2843. |
| er | C4 | Sakamoto, M., et al. (2000) Adaptive channel estimation with velocity estimator for W-CDMA receiver. VTC pgs. 2024-2028. |
| EXAMINER <i>Quinn B. Young</i> | | DATE CONSIDERED 2/11/05 |
| *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | | |